

25. (Amended) A system for time profiling multiple threads of execution corresponding to a program, comprising:

means for periodically interrupting execution of all of the threads;

means for determining whether register data corresponding to a selected thread has changed from a previous interrupt; and

means for providing an indication of the change for the selected thread.

REMARKS

This application is a continuation under 37 C.F.R. § 1.53(d). Claims 1-25 are pending in this application. Applicant has amended claims 1, 8-9, 16-17, and 24-25. An appendix is attached highlighting the changes to the claims.

In the last Office Action dated March 13, 2001, the Examiner rejected claims 1-25 under 35 U.S.C. section 102(e) as being anticipated by *Richardson* (U.S. Patent No. 5,974,536). Although Applicant disagrees with the Examiner's rejection, Applicant has amended the claims to further prosecution and to more particularly point out and distinctly claim the invention. Applicant reserves the right to pursue claims without the amendments noted herein.

The cited reference *Richardson* discloses space profiling, not time profiling, and does not profile information from one interrupt or program suspension in time to another. In contrast, claim 1, as amended herein, recites "determining whether register data corresponding to a selected thread has changed from a previous interrupt." Also for example, claim 8, as amended herein, recites "determining whether information

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corresponding to processor registers for each thread indicates that the thread is running by comparing the information to stored information from a previous interrupt."

Independent claims 9, 16, 17, 24 and 25 have also been amended to include limitations similar to those recited in claims 1 and 8.

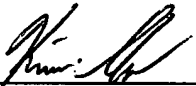
Applicant respectfully submits that the claims are patentable for at least these reasons in addition to reasons argued in the Amendment After Final dated August 31, 2001. Applicant respectfully requests the timely allowance of the pending claims and invites the Examiner to call Applicant's representative if it would further expedite prosecution.

If there is any fee due in connection with the filing of this Preliminary Amendment, please charge the fee to our Deposit Account No. 06-0916.

Respectfully submitted,

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**APPENDIX TO AMENDMENT OF
VERSION WITH MARKINGS TO SHOW CHANGES MADE**

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AMENDMENTS TO THE CLAIMS

1. (Amended) A method for time profiling multiple threads of execution corresponding to a program, comprising:
- interrupting execution of all of the threads;
 - determining whether register data corresponding to a selected thread has changed from a previous interrupt; and
 - providing an indication of the change for the selected thread.
8. (Amended) A method for time profiling multiple threads of execution corresponding to a program, comprising:
- suspending execution of the program;
 - determining whether [stored] information corresponding to processor registers for each thread indicates that the thread is running by comparing the information to stored information from a previous interrupt; and
 - recording time-profiling information for each running thread.

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9. (Amended) A time profiling system, comprising:

a multi-threaded program; and

a processor configured to execute the multi-threaded program, and to periodically interrupt execution of all of the threads to determine whether register data corresponding to a selected thread has changed from a previous interrupt and provide an indication of the change for the selected thread.

16. (Amended) A time profiling system for time profiling multiple threads of execution corresponding to a program, comprising:

a processor configured to periodically suspend execution of the program; and

said processor further configured to, during each program suspension, determine whether [stored] information corresponding to processor registers for each program thread indicates that the thread is running by comparing the information to stored information from a previous program suspension and record time-profiling information for each running thread.

17. (Amended) A computer-readable medium containing instructions for time profiling multiple threads of execution corresponding to a program, by:

interrupting execution of all of the threads;

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determining whether register data corresponding to a selected thread has changed from a previous interrupt; and
providing an indication of the change for the selected thread.

24. (Amended) A computer-readable medium containing instructions for time profiling multiple threads of execution corresponding to a program, by:
suspending execution of the program;
determining whether [stored] information corresponding to processor registers for each thread indicates that the thread is running by comparing the information to stored information from a previous interrupt; and
recording time-profiling information for each running thread.

25. (Amended) A system for time profiling multiple threads of execution corresponding to a program, comprising:
means for periodically interrupting execution of all of the threads;
means for determining whether register data corresponding to a selected thread has changed from a previous interrupt; and
means for providing an indication of the change for the selected thread.